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E2A AAN A300 A306 A340
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(56) Documents Cited

GB 2207347 A GB 2102056 A EP 0444360 A2
US 5022420 A US 4974807 A US 4919379 A
US 4711422 A

(58) Field of Search

UK CL (Edition L) E2A AAN
INT CL⁵ A45B 11/00, A63B 55/08, F16B 2/02 21/04

(54) Clamp

(57) A clamp for securing an umbrella to a push chair handle comprises an umbrella stem holder 1 having at one end a handle clamp provided with opposed jaws 4 brought into clamping engagement with an interposed handle by a bolt and wing nut 5. The handle clamp is connected to the umbrella holder by an angle adjusting hinge 2 comprising serrated plates tightened together by a bolt and wing nut 3.

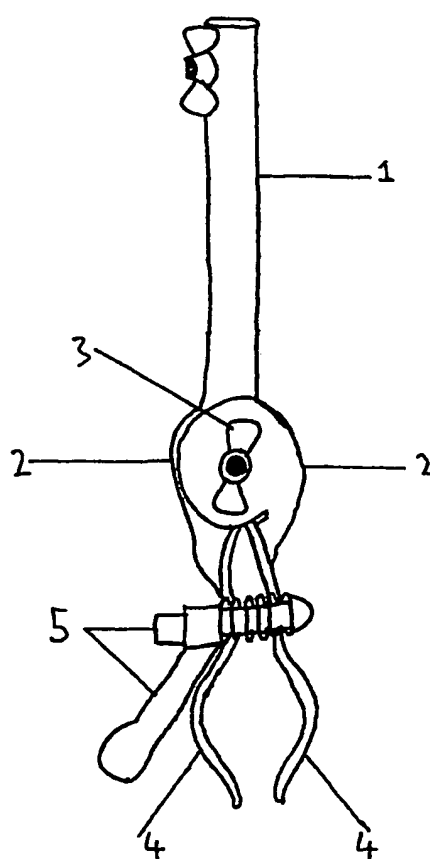
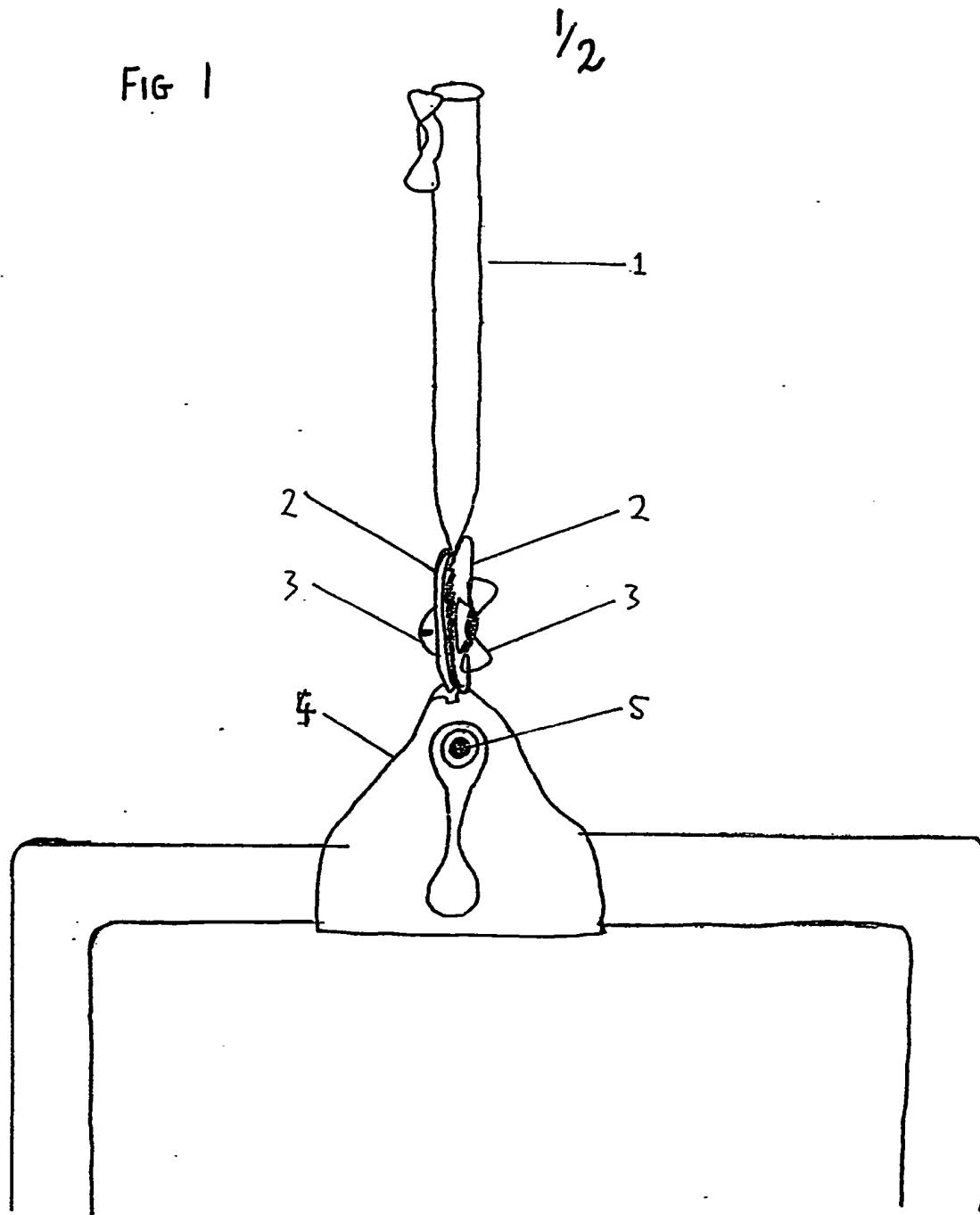


FIG 2

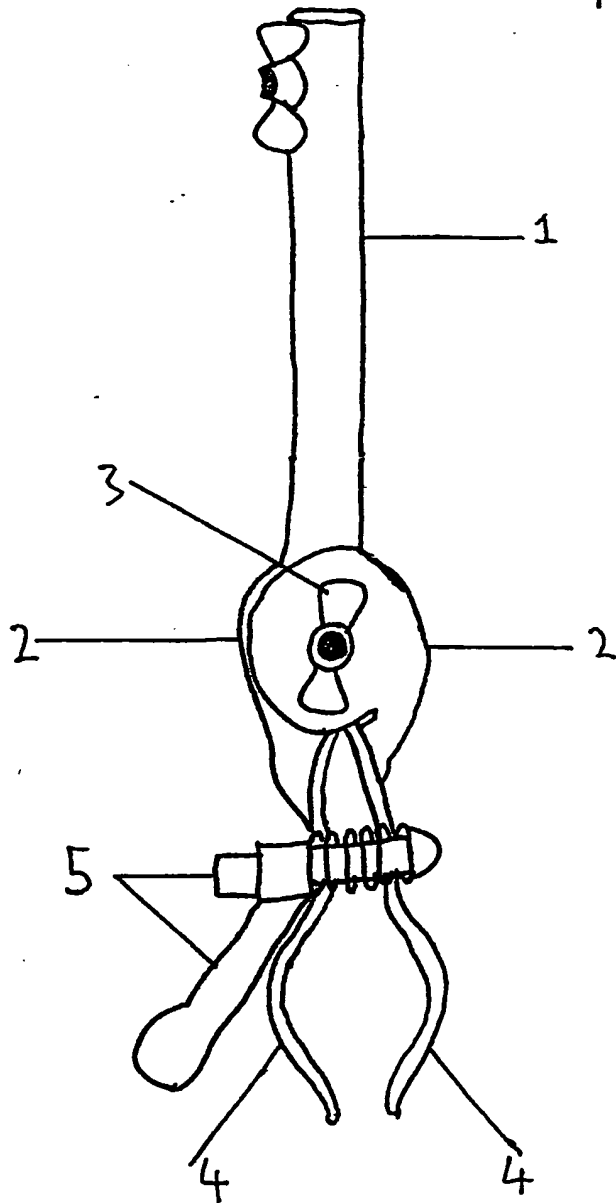
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FIG 1



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FIG 2



ADJUSTABLE CLAMP WITH SUPPORT FOR HOLDING AN UMBRELLA TO A PRAM OR PUSHCHAIR.

(Technical Field)

This invention relates to a clamp to attach an umbrella to a pram or pushchair.

(Background)

Prams and pushchairs are designed purely for the carriage and comfort of the child. Little consideration is given to the person pushing the pram.

(Example)

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawings in which

Figure 1. Shows in perspective the clamp attached to the pram handle.

Figure 2. Shows a side view of the clamp incorporating

- i) Umbrella stem holder with wing nut
- ii) Flanges can be flat or serrated
- iii) Bolt and wing nut to secure the flanges back and forth
- iv) Curved plates(padded) for pram handle
- v) Bolt with spring and lever type wing nut to tighten curved plates to pram handle

1. The clamp will be made of plastic, metal or a plurality of materials. It is designed to fit any pram or puschair handle. It is also designed for the umbrella stem(1) to move up or down according to the person's height.
2. The umbrella can be moved back and forth by looseing wing nut (3) for the persons own comfort. .
3. The clamp is easily removed for storage or it can be loosened by wing nut (3) and put in a convenient position.
4. It can be used for any type of umbrella or ideally of a clear plastic mushroom shape to protect the pram pusher and ensure all rounng vision.

Patents Act 1977 Examiner's report to the Comptroller under Section 17 (The Search report)	Application number GB 9310138.4
Relevant Technical Fields (i) UK Cl (Ed.M) E2A (AAN) (ii) Int Cl (Ed.5) F16B 2/02, 21/04; A45B 11/00; A63B 55/08 Databases (see below) (i) UK Patent Office collections of GB, EP, WO and US patent specifications. (ii)	Search Examiner A ANGELE
	Date of completion of Search 18 November 1993
	Documents considered relevant following a search in respect of Claims :- Claims 1-3 & total disclosure

Categories of documents

X: Document indicating lack of novelty or of inventive step.	P: Document published on or after the declared priority date but before the filing date of the present application.
Y: Document indicating lack of inventive step if combined with one or more other documents of the same category.	E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.
A: Document indicating technological background and/or state of the art.	&: Member of the same patent family; corresponding document.

Category	Identity of document and relevant passages	Relevant to claim(s)
X	GB 2207347 (HILLIER) - whole document	1 to 3
X,Y	GB 2102056 (ANDREWS) - whole document	1 to 3
Y	EP 0444360 (LAWTEX) - whole document	3
X	US 5022420 (BRIM) - whole document	1 to 3
X	US 4711422 (IBANEZ) - whole document	1 to 3
X	US 4974807 (MOINEAU) - whole document	1 to 3
X	US 4919379 (GOETZ) - whole document	1 to 3

Databases: The UK Patent Office database comprises classified collections of GB, EP, WO and US patent specifications as outlined periodically in the Official Journal (Patents). The on-line databases considered for search are also listed periodically in the Official Journal (Patents).